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Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
Thereof

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<150> US

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

<160> 112

<170> PatentIn version 3.2

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cccacattc cattttaat atatacttg cttacaaat attataatat gttttaa 180

40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240

tttgaatata tatttagttt ttaattgtg taggaaaatc aaagccagag ggagtagaaa 300

caaaatttgt gattttctaa atactcttg gctgcaggga agaaaccag tcccaggcga 360
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15 aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggtttcc cccttttcc 180

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 45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gncccccccg ggaaaggccc 180

aaggggggaa aatttttccg ggggtgggtg gggggaacca atttaagggg ggggccccg 240

gggggggttc ccttgggcn ttttcttt tgggtnaaaa aaaaaaaccc cttg 294

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15

ctgtacttga actctaaaac tgttgagaa actcagtgt tacccaaca gattcatttc 180

aatagctgt aaaaggtatg ttactccag aagaccagag ttgttcttt tgaacttctc 240

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attccttggg cctaggaacc ctatcaccc tcacccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca gggccctgcc tgacacaggc atagactgtc atgttggtt 360

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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg 180
45 gtcttgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

tg 242

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 tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt 120
 15 gcaggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

c 181

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15

aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag 180

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ggaagaattg tatgtgggag ttttaattgg tctcatttca ttgctataa ctcaattaca 180

aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga 240

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ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420

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45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaagggggtt aatattcctc 240

cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300

5 tgggcgccag caggggcggc ctccgggcca aaccgaacct caggtcanac ttccaagaaa 360

agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420

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gctggaaggc ttgnagggca gaaaagggat cgcctttgg gaggaacca ggtaaggtt 120
aagaaggaac ccacctngg ggccaaacaa aaacttaaaa acccccccat ttentncccc 180
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cantcantng ttgcctnttg ataccnana caaaattgaa

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tgnaatacta ttgcctetta tatacacnac caannntgcg aagggcnann nnaccttnc 180

cantnnnctg gggncceacn nnnngaact gagagtggat ctgtgtacc tgacnnacca 240

20 gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga 300

ccngnctatc tcaactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360

25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat 420

aggttaccnc cttnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480

ntctntcnct ataggeatga ttttnncag tgcgtcagcc tganaanga ancnnacttt 540

30 tgntagatga nnnngtgctc ncccttgngg ctnacaaatt ccancacctt tgggtggcngc 600

agccnttaag ancacttntt ttgggttgcg ctnttgatg aattacnaat agnntgtttt 660

35 gtncaaggc ccttctgcna aatatgaana aaagngcnct tagctttttg ngggaactgn 720

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caagtacgcn agcncctgaan ctaaagcaag caagaaaaag 100

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<211> 515

<212> DNA

<213> Human

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20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatgtagc tgggtgtccaa 180

gaagagtctt agttcattta ttggcccag aacctcttaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

25 gcctaatagc agccaccatt aagaaagcgt tcgtccaca cccactacct aaaaatcgaa 360

tataactgac tctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgccccaata tctacaatcc aacct 515

35 <210> 55

<211> 176

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 cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga 120
 40 agcctgcct ctaggacca agacagcaag gttncctg gtcactagat gaaatt 176

<210> 56
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 45 <212> DNA
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<223> n is a, c, g, or t

<400> 56

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atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120

ggatttgggg ttagaggta caattgcctt tttatggta gagaaaggctc ctggggctgg 180

15

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240

gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300

acattgttat tgccatt

317

20

<210> 57

<211> 209

<212> DNA

25 <213> Human

<400> 57

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ctggactgga cactgtatac ccacatgcaa gatgaagttg gcccttaca tcctatacgc 120

aggagaattg cgtcatttaa agcctgttga cgctttctc ccgcagacga atggaaagat 180

taattgggag tgggggctga aacaattcg

209

35

<210> 58

<211> 262

<212> DNA

40 <213> Human

<400> 58

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acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaat actcgggctg ggacacgatg 180

agttgcttgg cccaaggaag gagggttgta tggctgatca cactgggtccg cctgggtgac 240

5 agagcgagac tccatctcta at 262

<210> 59

<211> 430

10 <212> DNA

<213> Human

<400> 59

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cccgggggag gggatatccg ttataaacc ccaagggtat ttcttagca aaatacttaa 180

20 aaccggccgg ggttttata caaactggga acccactttt gaaaaattt ggcctttga 240

tctgggatgg gaatatgagt tttatacat ttcatcttct tttgggcaa aggcccggtt 300

aagtattccc ccccgggggg cctttacaaa aagggcggtt taaaagctt ttggccccc 360

25 ctagggaatt gtttaacac ctaaaaccc ctgcttcct taaagggcg ttcttaatt 420

tgggggcggc 430

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<210> 60

<211> 350

<212> DNA

<213> Human

35

<400> 60

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atcctactag ctggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg 120

40

tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180

tgattccgaa tcaccacag acagctcgat caccatacgt atcacccaac atatatact 240

45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat 300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga 350

<210> 61

5 <211> 515

<212> DNA

<213> Human

<400> 61

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

15 taaaaaggat tcattagtgt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg 300

20 agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa 360

atgaagtga ataataaaaa tatattctac actagcacia attataaata aagcagtgat 420

ttaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa ttctttata 480

25 gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

<400> 62

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aataatccac cagatacaag ttgcatcaa ctctgtgaa atatTTTTT tcctttttgt 180

40 tgggcatttt tatggcttaa atatagaatg accaatgcct ctagaacaaa ctgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa 300

45 ttgttataaa ttgatattt gatataaaa acttcttttg ccagtgttgg tggcacacgc 360

ctttaatccc agcacttagg aggagagagc aggggtggatt tctgaatttg agggcaggct 420

agtctacaga gcaagttcca ggtagccaa ggctatatat agaaactctg gcatgaaaaa 480

5 ccaaccaaac caaaccacaa ccaaccagac cagaccagac cagaccagac ccaaccaaac 540

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cagaccaaac t 611

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<210> 63

<211> 291

<212> DNA

15 <213> Human

<400> 63

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gaacacatgc tgaagatcat ctaactcaat atggcgcata ttctatgct ttgctgcccc 180

ggacatagga caacttcgct gctcactagt tctaacatat taatgctggc gtaggtggag 240

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<210> 64

30 <211> 309

<212> DNA

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tatatttcaa atgtcttgct aacagtgggt actttgctct atccttagct atacgtctcg 180

40 aggcacattg ttctctatg ccccgctacg ctttgccta gagctcggcg gtatctatat 240

cttaactgcc ctcttgatcc ttacgtgccg gagaaggtgg aggcagaaat ttgtcaaat 300

45 ctgattaga 309

<210> 65

<211> 278

<212> DNA

5 <213> Human

<400> 65

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10 tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa 120

agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180

tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa 240

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tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

<210> 66

20 <211> 142

<212> DNA

<213> Human

<400> 66

25 agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgttt 60

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atagctagta aactccccct gt 142

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35 <213> Human

<400> 67

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40 aaagatgac tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120

attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180

ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgcctcc 240

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caaagctcca ttctcttgaa agcagaagtg taatattact tcttag 286

<210> 68
 <211> 179
 5 <212> DNA
 <213> Human

 <400> 68
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 10 tagaagtcatt tttttatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120
 ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaatt 179
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 30 cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc ctgaccaca 120
 tttgaattc taaactgtct ctgggtgggt gtgggtgcc ccaagagcat gtgttcattg 180
 agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg 240
 35 gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
 40 ctcaatttct gcatgagaaa aaaggtggac 390

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 45 <212> DNA
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<223> n is a, c, g, or t

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gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120

tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180

15

agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240

gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300

20

gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360

tgagatgaca tgaaataatg aatgaaatt gaaatgagat aagatacgag ctgagatgca 420

atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat 480

25

g

481

<210> 71

<211> 125

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 10 <223> n is a, c, g, or t

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 cacag 125

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 35 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180
 cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa 240
 40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300
 ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga 360
 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
 45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73
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 5 <212> DNA
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 aatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaataa atgaaataat 120
 gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240
 gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga 300
 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360
 aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat 420
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 40 atgagatgaa atgatgaaat 500

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<213> Human

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<223> n is a, c, g, or t

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10 <221> misc_feature

<222> (57)..(57)

<223> n is a, c, g, or t

<400> 74

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

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25

<210> 75

<211> 155

<212> DNA

<213> Human

30

<400> 75

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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120

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<210> 76

40 <211> 367

<212> DNA

<213> Human

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<400> 76

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cgccatgaaa ttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180

45 tatcggtagc aggaatggat gttcgatttc gtagaatacg cctgagagac ggccaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

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30 tcagtgtttg gggtttattt taaaagaat aggggtgccac cagatgttct ttagtggagg 180

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 30 tattaccaa atattggac cattantaaa gantagggcc aaccnaatt tttctgaaa 180
 ttccgttaa atagccgta aatgtttta cccattcat attggatacc ttaaattata 240
 35 ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc tttctcctc 300
 taccattatt gtcactttat gtttgaacc ccctttacc ttccttaaag gaaaaaaagg 360
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ggaaaanaaa tcctttttaa anggaantcc aagggaagga ncctgnncaa nacttcccn 180

30 ccaataaaaa aaacnntttt ggaaangggg aaa 213

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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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 25 gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata 120
 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaaacag 180
 taaggtatft ggcatggaat agagaacca gaaacagacc caatgcatgg gtacaggata 240
 30 taacacaggg aaatgagggg caatatatgg ttctgggata attatttata tggggaaaat 300
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
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aacttcctca gaaggacaag agacaaagaa gtgggggagg cctcctatc catagctgag 180
35 agggtttatt cttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240

aaccacagct agacagaact tttagattt tgggggggtt aaaaggcctc aagcaaattc 300

40 taaaactttc ttgaacccc ctggcatagg ctcagtttcc ctgact 346

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45 <212> DNA
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<400> 85

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5 gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa 100

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10 <212> DNA

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attacctctt tttgtacca ctcttaaagg ccaggaacat atttgagaa gcctagtgt 180

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tcttttacc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

35 ttaaccatcg caatgccga ccgagtttaa ggaccactcc ccaccttct cattagttaa 240

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40 ttcttctaag cgtagcgcgt ctactccaat gtttcgtta atccagcccg aactaacgcc 420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag 480

45 aaaacaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a 531

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5 <213> Human

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acagccaaac cggtcgcccc aaggcctccg tcgttttata atatattccg ttacgtata 180

aggaacgaac ccccttcat taccacggtc ccgcgtccgc ctcttctcc attcgcaaca 240

15 gttctattcc tttagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300

gatagcaaag attaccagc ttctattcct cgccccagag ccgagtaaatt cgaagtttat 360

20 agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420

tataaactta atgtccctt tattctcccg gacgcccctt ttaaccactt ctctctatct 480

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 aattaaggna aggnntaaaa aatttaacca anggggggtt taaagggnnt tttttttta 180
 aaaaaaaagg taaancccc ccctttttt ttgggttggg gtgggaaat ttgggaanc 240
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ggaccgggtt ccattttaat gggatttggg aa

332

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cgggtggaac tattaaaaca taagttaat cggattttaa aattttaaaa tcaaaaaaaaa 120

15 taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt 180

ctcct 185

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aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag 240
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 40 atgggnaant tnnnnngggg ggggggaaaa ancccnnggg tnannggggg ccnngggntt 180
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 aaancnttt naaanacn nanaatttn cnnnncggg gagngngga nntttttt 300
 45 tnaannagcc nttttgna naaaaannnt ggnccccc ctattcnng gnttttngga 360

ccntnnanc ntgggnnttt ttagncttn aaaaaaangc naatntaag gtaaaaattn 420

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ntnnanctnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180
30 ttttctetta tntgnngnch naacatctgc nngctctgnt annaanaatt ncataccgcn 240
canngtctnt gacgntgtga tgcatacgnt tgggcagagn gancaatang tgngcatatg 300
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atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180

40 tgatgagatg agatgacatg aaataaatga aataatgaaa tcgaaatgag atgagaagat 240

acgagatgag atgaaatgat gagatgaaat gatgaaatga gataagatga aaagagttga 300

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atgaaatgag gtgaaatgaa attagatgaa acgtaatgag atgaaatgac ataatgaaat 420
gaaaaaatga aatgaaataa tgaaatgagg tgaaattaaa tgagatgatg aaattaaatg 480
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gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
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gaaatgaaat gatgagatga aatgaggatga aatgaaatta gatgaaacgt aatgagatga 180

30 aatgacctaa tgaaatgaaa aatgaaatg aaataatgaa atgaggatgaa attaatgag 240

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ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggatgaaa 420

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 30 ngaggaagac cc 132

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 aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttggggtt 180
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